

Lotfi A Zadeh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11119793/publications.pdf>

Version: 2024-02-01

71
papers

17,051
citations

186265

28
h-index

144013

57
g-index

73
all docs

73
docs citations

73
times ranked

7324
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Outline of a New Approach to the Analysis of Complex Systems and Decision Processes. IEEE Transactions on Systems, Man, and Cybernetics, 1973, SMC-3, 28-44. | 0.9 | 6,768 |
| 2 | Toward a theory of fuzzy information granulation and its centrality in human reasoning and fuzzy logic. Fuzzy Sets and Systems, 1997, 90, 111-127. | 2.7 | 2,465 |
| 3 | Fuzzy logic, neural networks, and soft computing. Communications of the ACM, 1994, 37, 77-84. | 4.5 | 1,307 |
| 4 | Is there a need for fuzzy logic?. Information Sciences, 2008, 178, 2751-2779. | 6.9 | 1,000 |
| 5 | Toward a generalized theory of uncertainty (GTU)â€”an outline. Information Sciences, 2005, 172, 1-40. | 6.9 | 920 |
| 6 | A Note on Z-numbers. Information Sciences, 2011, 181, 2923-2932. | 6.9 | 892 |
| 7 | Mind over Machine: The Power of Human Intuition and Expertise in the Era of the Computer. IEEE Intelligent Systems, 1987, 2, 110-111. | 1.0 | 503 |
| 8 | FUZZY SETS. Advances in Fuzzy Systems, 1996, , 394-432. | 8.7 | 465 |
| 9 | Toward a perception-based theory of probabilistic reasoning with imprecise probabilities. Journal of Statistical Planning and Inference, 2002, 105, 233-264. | 0.6 | 312 |
| 10 | Generalized theory of uncertainty (GTU)â€”principal concepts and ideas. Computational Statistics and Data Analysis, 2006, 51, 15-46. | 1.2 | 287 |
| 11 | Fuzzy logicâ€”a personal perspective. Fuzzy Sets and Systems, 2015, 281, 4-20. | 2.7 | 237 |
| 12 | An Extension of Wiener's Theory of Prediction. Journal of Applied Physics, 1950, 21, 645-655. | 2.5 | 231 |
| 13 | Discussion: Probability Theory and Fuzzy Logic Are Complementary Rather Than Competitive. Technometrics, 1995, 37, 271-276. | 1.9 | 206 |
| 14 | Toward extended fuzzy logicâ€”A first step. Fuzzy Sets and Systems, 2009, 160, 3175-3181. | 2.7 | 168 |
| 15 | FUZZY SETS AND SYSTEMS*. International Journal of General Systems, 1990, 17, 129-138. | 2.5 | 99 |
| 16 | A Doctrine of Cognitive Informatics (CI). Fundamenta Informaticae, 2009, 90, 203-228. | 0.4 | 91 |
| 17 | A note on web intelligence, world knowledge and fuzzy logic. Data and Knowledge Engineering, 2004, 50, 291-304. | 3.4 | 85 |
| 18 | THE BIRTH AND EVOLUTION OF FUZZY LOGIC*. International Journal of General Systems, 1990, 17, 95-105. | 2.5 | 69 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | From imprecise to granular probabilities. Fuzzy Sets and Systems, 2005, 154, 370-374. | 2.7 | 66 |
| 20 | Chapter 9 From search engines to question answering systems " The problems of world knowledge, relevance, deduction and precisiation. Capturing Intelligence, 2006, 1, 163-210. | 1.5 | 65 |
| 21 | Discussion: Probability Theory and Fuzzy Logic Are Complementary Rather Than Competitive. Technometrics, 1995, 37, 271. | 1.9 | 62 |
| 22 | Cognitive Intelligence. International Journal of Cognitive Informatics and Natural Intelligence, 2016, 10, 1-20. | 0.4 | 61 |
| 23 | The Determination of the Impulsive Response of Variable Networks. Journal of Applied Physics, 1950, 21, 642-645. | 2.5 | 44 |
| 24 | Fuzzy Logic, Neural Networks, and Soft Computing. Advances in Fuzzy Systems, 1996, , 775-782. | 8.7 | 39 |
| 25 | A note on similarity-based definitions of possibility and probability. Information Sciences, 2014, 267, 334-336. | 6.9 | 39 |
| 26 | Circuit Analysis of Linear Varying-Parameter Networks. Journal of Applied Physics, 1950, 21, 1171-1177. | 2.5 | 33 |
| 27 | A Simple View of the Dempster-Shafer Theory of Evidence and its Implication for the Rule of Combination. Advances in Fuzzy Systems, 1996, , 674-679. | 8.7 | 33 |
| 28 | Some Reflections on Information Granulation and its Centrality in Granular Computing, Computing with Words, the Computational Theory of Perceptions and Precisiated Natural Language. Studies in Fuzziness and Soft Computing, 2002, , 3-20. | 0.8 | 33 |
| 29 | On Stability of Linear Varying-Parameter Systems. Journal of Applied Physics, 1951, 22, 402-405. | 2.5 | 32 |
| 30 | From Computing with Numbers to Computing with Words: From Manipulation of Measurements to Manipulation of Perceptions. Studies in Fuzziness and Soft Computing, 2002, , 81-117. | 0.8 | 29 |
| 31 | From Computing with Numbers to Computing with Words. Annals of the New York Academy of Sciences, 2001, 929, 221-252. | 3.8 | 28 |
| 32 | Toward a restriction-centered theory of truth and meaning (RCT). Information Sciences, 2013, 248, 1-14. | 6.9 | 28 |
| 33 | Abstract Intelligence. International Journal of Cognitive Informatics and Natural Intelligence, 2017, 11, 1-15. | 0.4 | 27 |
| 34 | Special issue on granular computing and data mining. International Journal of Intelligent Systems, 2004, 19, 565-566. | 5.7 | 25 |
| 35 | Foreword to the Special Section on Computing With Words. IEEE Transactions on Fuzzy Systems, 2010, 18, 437-440. | 9.8 | 24 |
| 36 | Precisiated Natural Language. , 2007, , 33-59. | | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | The Information Principle. Information Sciences, 2015, 294, 540-549. | 6.9 | 22 |
| 38 | Fuzzy-Based Techniques in Human-Like Processing of Social Network Data. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2015, 23, 1-14. | 1.9 | 21 |
| 39 | From computing with numbers to computing with wordsâ€”from manipulation of measurements to manipulation of perceptions. AIP Conference Proceedings, 2001, , . | 0.4 | 20 |
| 40 | From Computing with Numbers to Computing with Wordsâ€”From Manipulation of Measurements to Manipulation of Perceptions. Lecture Notes in Computer Science, 2000, , 3-40. | 1.3 | 16 |
| 41 | A New Direction in AI Toward a Computational Theory of Perceptions. Studies in Fuzziness and Soft Computing, 2002, , 3-20. | 0.8 | 15 |
| 42 | Initial Conditions in Linear Varyingâ€”Parameter Systems. Journal of Applied Physics, 1951, 22, 782-786. | 2.5 | 12 |
| 43 | The role of fuzzy logic in modeling, identification and control. Advances in Fuzzy Systems, 1996, , 783-795. | 8.7 | 11 |
| 44 | On the Analysis of Large-Scale Systems. Advances in Fuzzy Systems, 1996, , 195-209. | 8.7 | 10 |
| 45 | Generalized Theory of Uncertainty: Principal Concepts and Ideas. , 2011, , 104-150. | | 10 |
| 46 | A Very Simple Formula for Aggregation and Multicriteria Optimization. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2016, 24, 961-962. | 1.9 | 9 |
| 47 | Preliminary Draft Notes on a Similarity-Based Analysis of Time-Series with Applications to Prediction, Decision and Diagnostics. International Journal of Intelligent Systems, 2019, 34, 107-113. | 5.7 | 8 |
| 48 | Time-Dependent Heaviside Operators. Journal of Mathematics and Physics, 1951, 30, 73-78. | 0.4 | 7 |
| 49 | From Computing with Numbers to Computing with Words â€” From Manipulation of Measurements to Manipulation of Perceptions. , 2000, , 3-37. | | 7 |
| 50 | Probability Criterion for the Design of Servomechanisms. Journal of Applied Physics, 1949, 20, 141-144. | 2.5 | 6 |
| 51 | Knowledge Representation in Fuzzy Logic. Advances in Fuzzy Systems, 1996, , 764-774. | 8.7 | 6 |
| 52 | Discussion: Probability Theory and Fuzzy Logic Are Complementary Rather Than Competitive. Advances in Fuzzy Systems, 1996, , 805-810. | 8.7 | 6 |
| 53 | The Birth and Evolution of Fuzzy Logic (FL), Soft Computing (SC) and Computing with Words (CW): A Personal Perspective. Advances in Fuzzy Systems, 1996, , 811-819. | 8.7 | 5 |
| 54 | Toward a Perception-Based Theory of Probabilistic Reasoning with Imprecise Probabilities. Advances in Intelligent and Soft Computing, 2002, , 27-61. | 0.2 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Impact of Computers on the Orientation of Electrical Engineering Curricula. IEEE Transactions on Education, 1971, 14, 153-157. | 2.4 | 4 |
| 56 | Toward Human-Level Machine Intelligence. , 2006, , . | | 4 |
| 57 | On the System Algebra Foundations for Granular Computing. , 0, , 98-121. | | 4 |
| 58 | On the theory of filtration of signals. Zeitschrift Fur Angewandte Mathematik Und Physik, 1952, 3, 149-156. | 1.4 | 3 |
| 59 | Foreword: Fuzzy logic. Journal of Intelligent Information Systems, 1993, 2, 309-310. | 3.9 | 3 |
| 60 | Toward a perception-based theory of probabilistic reasoning with imprecise probabilities. , 2003, , 3-34. | | 3 |
| 61 | DNA Algorithm of Image Recognition and its Application. , 2006, , . | | 3 |
| 62 | FUZZY CONTROL, FUZZY GRAPHS, AND FUZZY INFERENCE. , 1995, , 1-9. | | 3 |
| 63 | FUZZY PROBABILITIES. Advances in Fuzzy Systems, 1996, , 643-652. | 8.7 | 2 |
| 64 | A Computational Theory of Dispositions. Advances in Fuzzy Systems, 1996, , 713-737. | 8.7 | 2 |
| 65 | Outline of a restriction-centered theory of reasoning and computation in an environment of uncertainty and imprecision. , 2012, , . | | 2 |
| 66 | Toward a restriction-centered theory of truth and meaning (RCT). , 2013, , . | | 2 |
| 67 | Title is missing!. Journal of Japan Society for Fuzzy Theory and Systems, 1995, 7, 760-761. | 0.0 | 0 |
| 68 | FUZZY SYSTEMS THEORY: A Framework for the Analysis of Humanistic Systems. Advances in Fuzzy Systems, 1996, , 464-480. | 8.7 | 0 |
| 69 | Fuzzy Sets, Usuality and Commonsense Reasoning. Advances in Fuzzy Systems, 1996, , 738-758. | 8.7 | 0 |
| 70 | Abstract Intelligence. , 2020, , 52-69. | | 0 |
| 71 | Cognitive Intelligence. , 2020, , 1500-1523. | | 0 |